JUN 2 8 2004 15

Docket: MA9658DIV2

<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

plication of:

Fraser et al.

Group Art Unit: 1744

Serial No: 10/614,392

Filed:

July 7, 2003

Examiner: unknown

FOR: SYSTEMS AND METHODS FOR

TREATING PATIENTS WITH

PROCESSED LIPOASPIRATE CELLS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 I hereby certify that this correspondence is being deposited with the United States Postal Service, First Class mail, postage prepaid, in an envelope addressed to Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 23, 2004.

STOUT, UXA, BUYAN & MULLINS, LLP

Kenton R. Mullins, Reg. No. 36,331

TRANSMITTAL

Sir:

Submitted herewith are

- ~ Return Receipt postcard;
- ~ Information Disclosure Statement;
- ~ PTO-1449 21 Sheets;
- ~ The Commissioner is hereby authorized to charge any needed fees to deposit account 50-1600.

Respectfully submitted,

Kenton R. Mullins Attorney for Applicants Reg. No. 36,331

June 23, 2004 4 Venture, Suite 300 Irvine, CA 92618

Telephone: (949) 450-1750 Facsimile: (949) 450-1764

Docket: MA9658DIV2

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re-Application of:

Fraser et al. / Group Art Unit: 1744

Serial No: 10/614,392

Alexandria, VA 22313-1450

Filed: July 7, 2003 / Examiner: unknown

FOR: SYSTEMS AND METHODS FOR

TREATING PATIENTS WITH

PROCESSED LIPOASPIRATE CELLS

I hereby certify that this correspondence is being deposited with the United States Postal Service, First Class mail, postage prepaid, in an envelope addressed to Commissioner of Patents

P.O. Box 1450

Box

Kenton R. Mullins, Reg. No. 36,331

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.56 and 1.97, Applicants wish to call the attention of the Examiner to the references that are listed on the attached PTO form 1449. In accordance with 37 .F.R. section 198(d)(1)(2), copies of all 291 references in the enclosed PTO form 1449 are not provided as they have previously been provided in U.S. Serial No. 10/316,127 filed December 9, 2002, for which the subject application claims priority

Applicants respectfully request that the cited references be listed on the face of any patent issuing from this application.

These citations do not constitute an admission that the references are relevant or material to the claims, but rather only constitute the closest art of which Applicants are presently aware.

Respectfully Submitted

Kenton R. Mullins Attorney for Applicants Registration No. 36,331

June 23, 2004 4 Venture, Suite 300 Irvine, CA 92618 949-450-1750

	INFO	DRMATION DISCLOSUR	E CITOTION		MA Applicant(s)	A9658D 1 V Z		10/E	514,392	<u>-</u>
	IIVI O	(Use several sheets if neces	isarpy)	$-c_{J}$	Fraser et al.			- 4 - 4 11 - 12		
			JUN 2 8 200	19	7/	7/03		roup Art Unit	44	
			TRADEMAN	S. PAT	ENT DOCUMENT	rs				
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME		CLASS	SUBCLASS	FILING IF APPRO	
-		6,200,606	03/13/2001	Peterso	n et al.					A bio i s
	 	5,035,708	07/20/1991	Alchas	et al.					
		5,372,945	12/13/1994	Alchas	et al.					
		5,786,207	07/28/1998	Katz et	al.					
		4,820,626	04/11/1989	William	ıs et al.				1	
		4,883,755	11/28/1989	Caraba	si et al.					,
		5,486,359	01/23/1996	Caplan	et al.		•		-	
		4,458,678	07/10/1984	Yannas	et al.					
		5,837,235	11/17/1998	Mueller	et al.					
		5,409,833	04/25/1995	Hu et al						
		6,316,247	11/13/2001	Katz et	al.					
				FOREIG	N PATENT DOCU	MENTS		<u></u>	, 	
	REF	DOCUMENT NUMBER	DATE		COUNTRY		CLASS	SUBCLASS	Transl YES	lation NO
		EP0570331	11/18/1993	Europe	· · · · · · · · · · · · · · · · · · ·				1 222	
		WO8702812	07/11/1987	WIPO						
		WO8601111	02/27/1986	WIPO						
				 	. 14					
					· · · · · · · · · · · · · · · · · · ·					-
						_		te, Pertinent Pag	es, Etc.)	
		U.S. Application No. 0	9/936,665, filed 9/1	10/2001, K	atz et al., Adipose	e-Derived Ster	m Cells and	d Lattices		
		U.S. Application No. 0	9/952,522, filed 9/1	10/2001, K	atz et al., Adipose	e-Derived Ster	m Cells and	d Lattices		
XAMINER	~				DATE CONSIDE	RED				
		al if citation considered, whether clude copy of this form with next			ce with MPEP Sect	ion 609; Draw	line through	h citation if not i	in conforma	ince and

Form PTO-A820 (also form PTO-1449)

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
MA96580\VZ	10/614,392
Applicant(s)	
Fraser et al.	
Filing Date	Group Art Unit
7/2/2	71.1.

		7/7/03	1/44
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author,	r, Tille, Date, Pertinent Pages, Etc.)	
Billion	Avital, I., D. Inderbitzin, et al. (2001). "Isolation stem cells." Biochem Biophys Res Commun 288	n, characterization, and transplantation (3(1): 156-64.	of bone marrow-derived hepatocyte
	Carmeliet, P. and A. Luttun (2001). "The emerg Thromb Haemost 86(1): 289-97.	ging role of the bone marrow-derived ste	em cells in (therapeutic) angiogenesis."
	Castro-Malaspina, H., W. Ebell, et al. (1984). "I Res 154: 209-36.	Human bone marrow fibroblast colony-f	forming units (CFU-F)." Prog Clin Bio
	Coleman, S. R. (1995). "Long-term survival of f	fat transplants: controlled demonstration	1s." Aesthetic Plast Surg 19(5): 421-5.
	Coleman, S. R. (2001). "Structural fat grafts: th	ne ideal filler?" Clin Plast Surg 28(1): 11	1-9.
	Coleman, W. P., 3rd (1991). "Autologous fat tra	ansplantation." Plast Reconstr Surg 88(4	i): 736.
	Connolly, J. F. (1998). "Clinical use of marrow S257-66.	osteoprogenitor cells to stimulate osteogo	enesis." Clin Orthop(355 Suppl):
·	Eremia, S. and N. Newman (2000). "Long-term followed at least 12 months after receiving the la	follow-up after autologous fat grafting: ast of a minimum of two treatments." De	analysis of results from 116 patients ermatol Surg 26(12): 1150-8.
·	Fukuda, K. (2001). "Development of regenerative engineering." Artif Organs 25(3): 187-93.	ve cardiomyocytes from mesenchymal ste	em cells for cardiovascular tissue
	Guerrerosantos, J., A. Gonzalez-Mendoza, et al. study in rats." Aesthetic Plast Surg 20(5): 403-8	. (1996). "Long-term survival of free fat ; 3.	grafts in muscle: an experimental
	Horwitz, E. M., D. J. Prockop, et al. (1999). "Tr cells in children with osteogenesis imperfecta." I	ransplantability and therapeutic effects o Nat Med 5(3): 309-13.	of bone marrow-derived mesenchymal
	Horwitz, E. M., D. J. Prockop, et al. (2001). "Cl osteogenesis imperfecta." Blood 97(5): 1227-31.	linical responses to bone marrow transpl	antation in children with severe
EXAMINER	<u>· · · · · · · · · · · · · · · · · · · </u>	DATE CONSIDERED	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and 10t considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Docket Number (Optional) MA965801UZ	Application Number 10/6/4,392		
Applicant(s) Fraser et al.			
Filing Date 7/7/03	Group Art Unit		

·		7/7/03 .	Group Art Unit
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author,	Title, Date, Pertinent Pages, Etc.)	
	Huang, J. I., S. R. Beanes, et al. (2002). "Rat extr Plast Reconstr Surg 109(3): 1033-41; discussion	amedullary adipose tissue as a 042-3.	source of osteochondrogenic progenitor cells
	Hutley, L. J., A. C. Herington, et al. (2001). "Hur J Physiol Endocrinol Metab 281(5): £1037-44.	nan adipose tissue endothelial	cells promote preadipocyte proliferation." Ar
	Kern, P. A., A. Knedler, et al. (1983). "Isolation a Invest 71(6): 1822-9.	and culture of microvascular e	ndothelium from human adipose tissue." J Cl
	Lee, J. H., Z. Ilic, et al. (1996). "Cell kinetics of ro 77(2): 63-72.	epair after allyl alcohol-induce	d liver necrosis in mice." Int J Exp Pathol
	Lee, P. E., R. C. Kung, et al. (2001). "Periurethra a randomized double-blind controlled trial." J Ur	al autologous fat injection as tr ol 165(1): 153-8.	eatment for female stress urinary incontinenc
	Mizuno, H., P. A. Zuk, et al. (2002). "Myogenic d 109(1): 199-209; discussion 210-1.	ifferentiation by human proces	ssed lipoaspirate cells." Plast Reconstr Surg
	Murayama, T., O. M. Tepper, et al. (2002). "Dete angiogenic growth factor-induced neovasculariza	rmination of bone marrow-der tion in vivo." Exp Hematol 30(rived endothelial progenitor cell significance i 8): 967-72.
	Murry, C. E., R. W. Wiseman, et al. (1996). "Skel Invest 98(11): 2512-23.	letal myoblast transplantation	for repair of myocardial necrosis." J Clin
	Muschler, G. F., H. Nitto, et al. (2001). "Age- and prevalence of osteoblastic progenitors." J Orthop	gender-related changes in the Res 19(1): 117-25.	cellularity of human bone marrow and the
	Nishimori, M., Y. Yamada, et al. (2002). "Health- 99(6): 1995-2001.	related quality of life of unrela	ited bone marrow donors in Japan." Blood
	Orlic, D., J. Kajstura, et al. (2001). "Transplanted Acad Sci 938: 221-9; discussion 229-30.	i adult bone marrow cells repa	ir myocardial infarcts in mice." Ann N Y
	Orlic, D., J. Kajstura, et al. (2001). "Bone marrov	v cells regenerate infarcted my	ocardium." Nature 410(6829): 701-5.
XAMINER		DATE CONSIDERED	

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

not considered. Include copy of this form with next communication to applicant.

(Use several sheets if necessary)

Docket Number (Optional)	Application Number		
MA9658D1U Z	10/614,392		
Applicant(s)			
Fraser et al.			
Filing Date	Group Art Unit		
717/03	1744		
10/103	•		

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Palma, P. C., C. L. Riccetto, et al. (1997). "Repeated lipoinjections for stress urinary incontinence." J Endourol 11(1): 67-70.
	Pittenger, M. F., A. M. Mackay, et al. (1999). "Multilineage potential of adult human mesenchymal stem cells." Science 284(5411): 143-7.
	Prockop, D. J., S. A. Azizi, et al. (2000). "Potential use of marrow stromal cells as therapeutic vectors for diseases of the central nervous system." Prog Brain Res 128: 293-7.
	Rajnoch, C., J. C. Chachques, et al. (2001). "Cellular therapy reverses myocardial dysfunction." J Thorac Cardiovasc Surg 121(5): 871-8. t&artType=abs&id=a112937⌖=.
	Shi, Q., S. Rafii, et al. (1998). "Evidence for circulating bone marrow-derived endothelial cells." Blood 92(2): 362-7.
	Strauer, B. E., M. Brehm, et al. (2002). "Repair of infarcted myocardium by autologous intracoronary mononuclear bone marrow cell transplantation in humans." Circulation 106(15): 1913-8.
	Takahashi, T., C. Kalka, et al. (1999). "Ischemia- and cytokine-induced mobilization of bone marrow-derived endothelial progenitor cells for neovascularization." Nat Med 5(4): 434-8.
	Thomas, E. D. (1994). "Stem Cell Transplantation: Past, Present and Future." Stem Cells 12: 539-544.
	Werlich, T., K. J. Stiller, et al. (1999). "Experimental studies on the stem cell concept of liver regeneration. II." Exp Toxicol Pathol 51(1): 93-8.
	Yavorkovsky, L., E. Lai, et al. (1995). "Participation of small intraportal stem cells in the restitutive response of the liver to periportal necrosis induced by allyl alcohol." Hepatology 21(6): 1702-12.
	Yin, L., D. Lynch, et al. (1999). "Participation of different cell types in the restitutive response of the rat liver to periportal injury induced by allyl alcohol." J Hepatol 31(3): 497-507.
	Zuk, P. A., M. Zhu, et al. (2001). "Multilineage cells from human adipose tissue: implications for cell- based therapies." Tissue Eng 7(2): 211-28.
EXAMINER	DATE CONSIDERED
*EXAMINER: I	nitial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

P098/REV04

FORM 1449*	Docket Number Application Number MA9658 DIV 2 10/6/4, 342		
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.		
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit 1744	

		U.S. PA	TENT DOCUMENTS	5			
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS		DATE OPRIATE
	5,486,359	January 23, 1996 (EXHIBIT 1)	Caplan, et al.				
	5,728,739	March 17, 1998 (EXHIBIT 2)	Ailhaud et al.				
	5,827,740	October 27, 1998 (EXHIBIT 3)	Pittenger				
	5,827,897	October 27, 1998 (EXHIBIT 4)	Ailhaud, et al.				
		FOREIGN	PATENT DOCUME	NTS			-
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
						YES	NO
	WO 98/04682	February 5, 1998 (EXHIBIT 5)	US				
	OTHE	R DOCUMENTS (Includ	ing Author, Title, Date	e, Pertinent Pag	es, Etc.)		
	Americ Dani, o 1279- Enteni precur Eslam Stimul Haune Precur Hausn Serum Hui-L differe (EXH Marko Adipo Shilla	dine, et al., "Paracrine stican Journal of Physiologet al., "Differentiation of 1285 (EXHIBIT 7) mann, et al., "Relationsh sor cells," American Physiological Presentiation of 1285 (EXHIBIT 7) mann, et al., "Endothelin-1 is sor Cells," Metabolism man, et al., "The Influence of Stroming et al., "Increased expentiation to adipocytes," IBIT 12) of et al., "Isolation of a Pocytes," Endocrinology 1 beer, et al., "A novel me 20 (Supp. 3), \$77-\$83 (Expect al., "From preadipo	ip between replication vs. Soc. 1996 270, C10 in the control of th	E899 (EXHIB Is into adipocyte In and differentia III-C1016 (EXI IIII-C1016 (EXI IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ation cultured hu HIBIT 8) d by Microvascu 43 (7), 906-912 f Cultured Huma 0) in Preadipocyte I 74(9), 2117-212 in cells promotes 6 3 265(6), C1729 c Marrow and Di 13) centiation in vitro	man adipoolar Endoth (EXHIBI) n Adipocy Development 18 (EXHIBI) C1735 fferentiation, "Intl. J. C	elial Cells (F 9) te nt in BIT 11)
	Cell S	ty et al., "From preadipo surface to the Nucleus," ((IBIT 15)	cyte to Adipocyte: D Critical Review in Cl	inical Laborato	ry Sciences 1999	36(1), 1-3	4

XAMINER	DATE CONSIDERED
:XAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in
conformance and not considered. Include conv.of this form for next	communication to the Applicant.

^{*}Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

E00M 44/2*	· · · · · · · · · · · · · · · · · · ·		Sheet bof 2		
FORM 1449*		Docket Number	Application Number		
INFORMATION	DISCLOSURE ATTACK	MA9658DIV 2	10/6/4,392		
	DISCLOSURE STATEMENT N APPLICATION	Applicant			
IN A	N APPLICATION	Fraser et al.			
() lan anua	and about a standard	Filing Date	Group Art Unit		
(Use seve	ral sheets if necessary)	7/7/03	1744		
	OTHER DOCUMENTS (Including Aut	hor, Title, Date, Pertinent Pages,	Etc.)		
	/assaux, et al., "Proliferation and diff Medium: Differential Action of Anti- 49-256 (EXHIBIT 16)	Adipogenic Agents," Journal of	Cellular Physiology 1994 161(2),		
	Vabitsch, et al., "Biological Effects o Jewly Differentiated Adipocytes in pr EXHIBIT 17)	f Human Growth Hormone in Ra rimary Culture," Metabolism 199	at Adipocyte Precursor Cells and 26 Vol 45,No. 1 pp34-42		
	Young et al., "Mesenchymal Stem Ce Developmental Dynamics 1995 202(2)	lls Reside Within the Connective), 137-144 (EXHIBIT 18)	Tissues of Many Organs,"		
					
					
	· · · · · · · · · · · · · · · · · · ·				
· · · · · · · · · · · · · · · ·					
					
-					
					

XAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number MA9658DN/2 Applicant Fraser et al. Application Number 10/6/4.392		
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit 1744	

		U.S. PA	TENT DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
HATTIAL.	5,591,625	January 7, 1997	Gerson, et al.				
	(Exhibit 19)						
	5,786,207	July 28, 1998	Katz, et al.				
	(Exhibit 20)						
	5,827,735	October 27, 1998	Young, et al.				
	(Exhibit 21)						
	5,827,740	October 27, 1998	Pittenger				
	(Exhibit 22)		, , , , , , , , , , , , , , , , , , ,				
	5,906,934	May 25, 1999	Grande, et al.		-		· · · · · · · · · · · · · · · · · · ·
	(Exhibit 23)	Way 25, 1555	Cranes, or an]	
	[June 1, 1999	Johnstone et al.	 		 	
	5,908,784	Julie 1, 1999	Joinistone et al.				
	(Exhibit 24)	14	Peterson, et al.		-	 	
	6,200,606 B1	March 13, 2001	Peterson, et al.				
	(Exhibit 25)			176	<u> </u>	L	
			PATENT DOCUMEN		T GURGI ASS	TOANS	LATION
<u> </u>	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS		
	-					YES	NO
		ER DOCUMENTS (Include					
		ett, JH, et al., 1991 <i>J. Ce</i> 1):131-139 (Exhibit 26)		lls cultured from	n marrow have o	steogenic p	otential,"
	Beres	ford et al., 1986 Endo.	1.25- Dihydroxyvitar	min D ₃ and Hur	nan Bone-Derive	d Cells in	Vitro:
	Effec	ts on Alkaline Phosphata	ise. Type I Collagen a	ind Proliferation	դ," 119:1776-178	35 (Exhibit	27)
	Bjorn	ison, et al., 1999 Science	"Turning Brain into I	Blood: A Hema	topoetic Fate Ad	opted by A	dult
	Neural Stem Cells in Vivo," 283:534-537 (Exhibit 28) Bruder, et al., 1997 J. Cell Biochem. "Growth Kinetics, Self-Renewal, and the Osteogenic Potential of						
	Purified Human Mesenchymal Stem Cells During Extensive Subcultivation and Following						
	Cryonreservation," 64:278-294 (Exhibit 29)						
	Butler-Browne, et al., 1990 Anat. Embryol. (Berl) "Myosin heavy and light chain expression during						
	human skeletal muscle development and precocious muscle maturation induced by thyroid hormone," 181:513-522 (Exhibit 30)						
	Cheng Sel. et al. 1994 Endo "Differentiation of Human Bone Marrow Osteogenic Stromal Cells in						
	Vitro	: Induction of the Osteol	blast Phenotype by De	xamethasone,"	134: 277-286 (F	xhibit 31)	

EXAMINER	DATE CONSIDERED
-	

(AMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in informance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number Application Number MA9658DtV2 10/6/4, 3 9 2			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit		

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Chyun, et al., 1984 Endo. "Cortisol Decreases Bone Formation by Inhibiting Periosteal Cell
	Proliferation," 114:477-480 (Exhibit 32)
	Conget, PA and JJ Minguell 1999 J. Cell. Physiol "Phenotypical and Functional Properties of Human
	Bone Marrow Mesenchymal Progenitor Cells," 181:67-73 (Exhibit 33)
	Cooper, et al., 1999 J. Endocrinol. "Glucocorticoid activity, inactivity and the osteoblast,"
	163:159-164 (Exhibit 34)
	Denker, A.E., et al., 1995 Differentiation "Formation of cartilage-like spheroids by micromass cultures
	of murine C3H101/2 cells upon treatment with transforming growth factor-β1," 59: 25-34 (Exhibit 35)
	Denker, et al., 1999 Differentiation "Chondrogenic differentiation of murine C3H10T1/2 multipotential
	mesenchymal cells: I. Stimulation by bone morphogenetic protein-2 in high-density micromass
	cultures," 64:67-76 (Exhibit 36)
	Dimri, et, al., 1995 Proc. Natl. Acad. Sci. USA "A biomarker that identifies a senescent human cells in
	culture and in aging skin in vivo," 92: 9363-9367 (Exhibit 37)
	Ducy, et, al., 1997 Cell "Osf2/Cbfa1: A Transcriptional Activator of Osteoblast Differentiation," 89:747-
	754 (Exhibit 38)
	Ferrari G., et al., 1998 Science "Muscle Regeneration by Bone Marrow-Derived Myogenic Progenitors,"
	279: 1528-1530 (Exhibit 39)
	Frederikson and McKay 1988 J. Neurosci. "Proliferation and Differentiation of Rat Neuroepithelial
	Precursor Cells in vivo," 8:1144-1151 (Exhibit 40)
	Fridman, et al., 1992 Int. J. Cancer "Malignant Transformation of NIH-3T3 Cells After Subcutaneous co-
	Injection With A Reconstituted Basement Membrane (Matrigel)," 51(5), 740-44 (Exhibit 41)
	Grigoradis A., et al., 1988 J. Cell Biol. "Differentiation of Muscle, Fat, Cartilage, and Bone from
	Progenitor Cells Present in a Bone-derived Clonal Cell Population: Effect of Dexamethasone," 106:
	2139-2151(Exhibit 42)
	Guerriero, V and JR Florini 1980 Endocrinology "Dexamethasone Effects on Myoblast Proliferation and
	differentiation," 106:1198-1202(Exhibit 43)
	Hall, BK 1981 "Intracellular and extracellular control of differentiation of cartilage and bone,"
	Histochem. J. 13:599-614(Exhibit 44)
	Jaiswal, et al., 1997 "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal
	Stem Cells In Vitro," J. Cell Biochem. 64:295-312(Exhibit 45)
	Johnstone B., et al., 1998 "In Vitro Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor
	Cells," Exp. Cell Res. 238: 265-272(Exhibit 46)
	Kania, et al., 1990 "The Drosophila segmentation gene runt encodes a novel nuclear regulatory protein
	that is also expressed in the developing nervous system," Genes Dev. 4:1701-1713(Exhibit 47)
<u> </u>	Kehlen, A. et al., 2000 J. Cell Biochem. "Increased Lymphocytic Aminopeptidase N/CD13 Promoter
	Activity After Cell-Cells Contact," 80:115-123(Exhibit 48)
	Kosher, RA, et al., 1986 J. Cell Biol. "Collagen Gene Expression During Limb Cartilage
	Differentiation," 102:1151-1156(Exhibit 49)
	Kuri-Harcuch, W. et al., 1984, Differentiation "Extracellular matrix production by mouse 3T3-F442A
	cells during adipose differentiation in culture," 28(Exhibit 50)
	Lanier, L.L. et al, 1991 J. Immunol. "Molecular and Functional Analysis of Human Natural Killer Cell-
	Associated Neural Cells Adhesion Molecule (N-Cam/CD56),"146:4421-4426(Exhibit 51)
	Lawson-Smith, M.J. and McGeachie, J.K. 1998 J. Anat. "The identification of myogenic cells in
	skeletal muscle, with emphasis on the use of tritiated thymidine autoradiography and desmin
l l	antibodies," 192:161-171 (Exhibit 52)

XAMINER	DATE	CONSIDERED
	-	001101061160

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number Application Number MA9658D\UZ 10/6/4,39Z			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Leboy, et al., 1991 J. Cell Physiol. "Dexamethasone Induction of Osteoblast mRNAs in Rat Marrow Stromal Cell Cultures," 146:370-378 (Exhibit 53)
Lendahl, et al., 1990 Cell "CNS Stem Cells Express a New Class of Intermediate Filament Protein," 60:585-595 (Exhibit 54)
Lenoir, N. 2000 Science "Europe Confronts The Embryonic Stem Cell Research Challenge," 287:1425-1427 (Exhibit 55)
Lumelsky, N., et al. 2001 Science "Differentiation of Embryonic Stem Cells to Insulin-Secreting Structures Similar to Pancreatic Islets," 292:1389-1394. (Exhibit 56)
Lynch, et al., 1995, Exp. Cell Res. "The Influence of Type I Collagen on the Development and Maintenance of the Osteoblast Phenotype in Primary and Passaged Rat Calvarial Osteoblasts: Modification of Expression of Genes Supporting Cell Growth, Adhesion, and Extracelluar Matrix Mineralization," 216:35-45 (Exhibit 57)
Malaval, et al., 1994 J. Cell. Physiol. "Cellular Expression of Bone-Related Proteins During In Vitro Ostegenesis in Rat Bone Marrow Stromal Cell Culture," 158:555-572 (Exhibit 58)
Manduca, et al., 1992 Eur. J. Cell Biol. "Chondrogenic differentiation in chick embryo osteoblast cultures," 57:193-201 (Exhibit 59)
Martin, et al., 1999 Exp. Cell Res. "Mammalian Chondrocytes Expanded in the Presence of Fibroblast Growth Factor 2 Maintain the Ability to Differentiate and Regenerate Three-Dimensional Cartilaginous Tissue," 253:681-688 (Exhibit 60)
Megeney, et al., 1996 Genes Dev. "MyoD is required for myogenic stem cell function in adult skeletal muscle," 10:1173-1183 (Exhibit 61)
 Molkentin and Olson 1996 Curr. Opin. Genet. Dev. "Defining the regulatory networks for muscle development," 6:445-453 (Exhibit 62)
Mundlos, et al., 1997 Cell "Mutations Involving the Transcription Factor CBFA12 Cause Cleidocranial Dysplasia," 89:773-779 (Exhibit 63)
Nehls, A. and D Drenckhahn 1991 J. Cell Biol. "Heterogeneity of Microvascular Pericytes for Smooth Muscle Type Alpha-Actin," 113:147-154 (Exhibit 64)
Owen, TA, et al., 1990 J. Cell Physiol. "Progressive Development of the Rat Osteoblast Phenotype in Vitro: Reciprocal Relationships in Expression of Genes Associated with Osteoblast Proliferation and Differentiation During Formation of the Bone Extracellular Matrix," 143:420-430 (Exhibit 65)
Paul S.R., et al., 1991 Blood "Stromal Cell-Associated Hematopoiesis: Immortalization and Characterization of Primate Bone Marrow-Derived Stromal Cell Line," 77: 1723-33 (Exhibit 66)
Pittenger M.F., et al., 1999 Science "Multilineage Potential of Adult Human Mesenchymal Stem Cells," 284: 143-147 (Exhibit 67)
Prockop D.J. 1997 Science "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues," 276: 71-74 (Exhibit 68)
Rando, et al., 1995 Exp. Cell Res. "The Fate of Myoblasts Following Transportation into Mature Muscle," 220:383-389 (Exhibit 69)
Saalbach, A., et al., 1997 Cell and Tiss. Res. "The Fibroblast-specific MAb ASO2: a novel tool for detection and elimination of human fibroblasts," 290:593-599 (Exhibit 70)
Sanchez-Ramos, et al., 2000 "Adult Bone Marrow Stromal Cells Differentiate into Neural Cells in Vitro." Exp. Neurol. 164:247-256 (Exhibit 71)
Seale and Rudnicki 2000 Dev. Biol. "A New Look at the Origin, Function, and "Stem-Cell" Status of Muscle Satellite Cells," 218:115-124 (Exhibit 72)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in
conformance and not considered. Include copy of this form for next	communication to the Applicant.

^{*}Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number Application Number MA9658DIV 2 10/6/4,392			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/07	Group Art Unit 1744		

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Shukunami, C., et al., 1998 Exp. Cell Res. "Sequential Progression of the Differentiation Program by Bone Morphogenetic Protein-2 in Chondrogenic Cell Line ATDC5," 241:1-11 (Exhibit 73)
	Shukunami C., et. al., 1996 Journ. Of Cell Bio. "Chrondrogenic Differentiation of Clonal Mouse Embryonic Cell Line ATDC5 In Vitro: Differentiation-dependent Gene Expression of Parathyroid Hormone (PTH)/PTH-related Peptide Receptor," 133:2:457-468 (Exhibit 74)
	Silberstein, L., et al., 1986 Cell "Developmental Progression of Myosin Gene Expression in Cultured Muscle Cells," 46:1075-1081 (Exhibit 75)
	Suga, S., et al., 1996, "Eur. J. Cell Biol. "Intracellular localization of antigens recognized by anti-vimentin monoclonal antibodies (mAbs): Cross-reactivities of anti-vimentin mAbs with other cellular components 70:84-91 (Exhibit 76)
	Tacchetti, C, et al., 1992 Exp Cell Res. "Cell Condensation in Chondrogenic Differentiation," 200:26-33 (Exhibit 77)
	Tapscott, et al., 1988 Science "MyoD1: A Nuclear Phosphoprotein Requiring a Myc Homology Region to Convert Fibroblasts to Myoblasts," 242:405-411 (Exhibit 78)
	Thornell, et al., 1984 J. Neurol. Sci. "Development of Fiber Types in Human Fetal Muscle," 66:107-115 (Exhibit 79)
	Totonoz, et al., 1995 Nucl. Acid Res "mPPARy2: tissue-specific regulator of an adipocyte enhancer," (Exhibit 80)
	Tsonis and Goetinck 1990 Exp. Cell Res. "Cell Density Dependent Effect of a Tumor Promoter on Proliferation and Chondrogenesis of Limb Bud Mesenchymal Cells," 190:247-253 (Exhibit 81)
	von der Mark, et al., 1977 Nature "Relationship between cell shape and type of collagen synthesised as chondrocytes lose their cartilage phenotype in culture," 267:531-532 (Exhibit 82)
	Vukicevic et al., 1992 Exp. Cell Res "Identification of Multiple Active Growth factors in Basement Membrane Matrigel Suggests Caution in Interpretation of Cellular Activity Related to Extracellular Matrix Components,". 202(1), 1-8 (Exhibit 83)
	Weintraub, et al., 1991 Science "The myoD Gene Family: Nodal Point During Specification of the Muscle Cell Lineage," 251:761-766 (Exhibit 84)
	Woodbury, et al., 2000 J. Neurosci. Res. Science "Adult Rat and Human Bone Marrow Stromal cells Differentiate Into Neurons," 61:364-370 (Exhibit 85)
	Young, 2000 Science "A Time for Restraint," 287:1424. (Exhibit 86)
	Zalin, RJ 1987 Exp. Cell Res. "The Role of Hormones and Prostanoids in the in Vitro Proliferation and differentiation of Human Myoblasts," 172:265-281. (Exhibit 87)
L	

XAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number MA9658 Dt U 2	Application Number	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.		
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit	

U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS		G DATE ROPRIATE		
	FOREIGN PATENT DOCUMENTS								
	DOCUMENT NO.	DATE	COUNTRY CLASS SUBCLASS			TRANSLATION			
						YES	NO		
	OTHE	R DOCUMENTS (Includ	ing Author, Title, Date	Pertinent Page	es, Etc.)				
	osteob	m, Michael A., "Age-rel lasts," <i>Biochem J.</i> 333:7	87-794. (Exhibit 88)				1		
	Nonex 213:36	lisashi, et al., "A Preadip pression of GLUT-4 pro 59-375. (Exhibit 89)	otein during Adipocyte	Differentiation	"" Biochem. Bio	phys. Res.			
	Mouse	ohr, David A. et al., "Tis: Adipocytes," Biochem.	Biophys. Res. Comun	. 1985 132:850-	855. (Exhibit 9	0)			
	Human	tz, S. et al., "Endoglin Is n Endothelial Cells," J. I	Biol. Chem., 1992 267	:19027-19030.	(Exhibit 91)				
		Theresa L. et al., "10,25 l. Chem. 1983 258:4350		Receptors in C	Cultured Rat oste	oblast-lik	e Cells,"		
· ·		oto, Hirayuki et al., "Cb! . Chem. 2000 275:8695-		tory Factor in (Chondrocyte Ma	turation,"			
	Actins	in, Ira M. and Patricia D .," <i>J. Cell Biol</i> . 1985 10	1:43-52. (Exhibit 94)	•					
		Paul A. et al., "Mesenc 22, R212 (Exhibit 95)	hymal Stem Cells Froi	m Granulation	lissue," J. Cell I	Biochem, 1	993		
		ka, Robert J. and Gideor clastic Osteosarcoma Ce					in		
	Perias	amy, Muthu et al., "Reg rophy," <i>Biochem. J.</i> 198	ulation of myosin heav	y-chain gene e			nuscle		
	Poliar	d, a. et al., "Controlled C enic, Chondrogenic, or a	Conversion of an Immo	rtalized Mesod					
	Price, Paul A. et al., "Matrix GLA Protein, A New γ-Carboxyglutamic Acid-Containing Protein Which is Associated With The Organic Matrix of Bone," <i>Biochem. Biophys. Res. Commun.</i> , 1983 117:765-771 (Exhibit 99)					n Which 7:765-771.			
	Trans	, Thomas A. and Helen plantation for Cell-media	ated Gene Therapy," J	Cell Biol 1994	125:1275-1287	. (Exhibit	100)		
	Weiner, Francis R. et al., "Regualtion of collagen Gene Expression in 3T3-L1 Cells. Efects of Adipocyte Differentiation and Tumor necrosis Factor α," Biochem 1989 28:4094-4099. (Exhibit 101)						Adipocyte		

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in
conformance and not considered. Include copy of this form for next	communication to the Applicant.

^{*}Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

		3.104.1501 Z(
FORM 1449*	Docket Number	Application Number
	MA9658DIV Z	101614,392
INFORMATION DISCLOSURE STATEMENT	Applicant	
IN AN APPLICATION	Fraser et al.	
·	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744
Williams, Irene H. and S. Efthimios Po Effect Of Indomethacin, Prostaglandin Biochem. Biophys. Res. Commun. 197	E ₁ And Cyclic AMP On The P. 17 77:175-186. (Exhibit 102)	rocess of Differentiation,"
Wise, Leigh S. and Howard Green, "P. Dehydrogenase in the Adipose Convert (Exhibit 103)		
Yoon, Kyonggeun et al., "Characteriza Activity by 1,25-Dihydroxyvitamin D	ation of the Rat osteocalcin Gen 5," <i>Biochem.</i> 1988 27:8521-8520	e: Stimulation of Promoter 5. (Exhibit 104)
	,	
	 	
	· · · · · · · · · · · · · · · · · · ·	
	······································	
		· · · · · · · · · · · · · · · · · · ·
FXAMINER	DATE CONSIDERED	

(AMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in unformance and not considered. Include copy of this form for next communication to the Applicant.

*Sub:titute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number MA9658DU Z	Application Number
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.	
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit 1744

		U.S.	PATENT DOCUMENTS	•		
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
INITIAL	5,226,914 (Exhibit 105)	07/13/93	Caplan et al.			11/16/90
	5,736,396 (Exhibit 106)	04/07/98	Bruder et al.	<u> </u>		01/24/95
	5,811,094 (Exhibit 107)	09/22/98	Caplan et al.			04/11/95
	5,817,050 (Exhibit 108)	10/06/98	Klein			05/29/97
	5,908,784 (Exhibit 109)	06/01/99	Johnstone et al.	 		11/15/96

		FOREIGN PA	TENT DOCUMEN	TS			
	DOCUMENT NO.	DATE	DATE COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO97/18299 (Exhibit 110)	05/22/97	PCT				Х
	WO97/39104 (Exhibit 111)	10/23/97	PCT				X
	W097/40137 (Exhibit 112)	10/30/97	PCT				Х
	WO97/41208 (Exhibit 113)	11/06/97	PCT				X
	WO98/20731 (Exhibit 114)	05/22/98	PCT				X
	WO98/32333 (Exhibit 115)	07/30/98	PCT				Х
	WO98/51317 (Exhibit 116)	11/19/98	PCT				Х
	W099/01145 (Exhibit 117)	01/14/99	PCT				Х
	W099/03973 (Exhibit 118)	01/28/99	PCT				Х
	WO99/11789 (Exhibit 119)	03/11/99	PCT				Х

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Bastard, J. P. et al., "A Mini-Liposuction Technique Adapted to the Study of Human Adipocyte Glucose Transport System," <i>Diabetologia</i> , 36(Suppl. 1):A135, 1993 (Exhibit 120) Caplan, Arnold I., "The Mesengenic Process," <i>Clinics in Plastic Surgery</i> , 21:429-35, 1994 (Exhibit 121)
· ·	Crandall, David L. et al., "Identification of Estrogen Receptor \$ RNA in Human Breast and Abdominal Subcutaneous Adipose Tissue," <i>Biochemical and Biophysical Research Communications</i> , 248:523-6, 1998 (Exhibit 122)

	To the contract of
EXAMINER	DATE CONSIDERED
EXAMINEN	.
	and a second and the second post in
EVANUED, leiticulif reference considered whether or not citation i	s in conformance with MPEP 609; draw line through citation if not in
EXAMINER: Initial if reference considered, wheater of the	to any rejection to the Applicant
conformance and not considered. Include copy of this form for nex	Communication to the Application
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
- Substitute Discustife Statement Form (F 10-1443)	T gright grid from the

conformance and not considered. Include copy of the *Substitute Disclosure Statement Form (PTO-1449)

FORM 1449*	Docket Number	Application Number
	MA9658 DIV Z	10/6/4,392
INFORMATION DISCLOSURE STATEMENT	Applicant	
IN AN APPLICATION	Fraser et al.	
·	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Hauner, Hans et al., "Promoting Effect of Glucocorticoids on the Differentiation of Human Adipocyte Precursor Cells Cultured in a Chemically Defined Medium," <i>Journal of Clinical Investigation</i> , 84:1663-70, 1989 (Exhibit 123)
	Hauner H. et al., "Glucocorticoids and Insulin Promote the Differentiation of Human Adipocyte Precursor Cells into Fat Cells." Journal of Clinical Endocrinology and Metabolism, 64:832-5, 1987 (Exhibit 124)
	Johnson, P. R. et al., "Uncontrolled adipocyte proliferation is not the primary lesion in the genetically- obese Zucker rat." International Journal of Obesity, 5:563-70, 1981 (Exhibit 125)
	Killinger, D. W. et al., "Influence of Adipose Tissue Distribution on the Biological Activity of Androgens," Annals New York Academy of Sciences, 595:199-211, 1990 (Exhibit 126)
	Killinger, Donald W. et al., "The Relationship Between Aromatase Activity and Body Fat Distribution," Steroids, 50:61-72, 1987 (Exhibit 127)
	Lafontan, M. et al., "Réflexions sur une nouvelle approche de chirurgie plastique réparatrice: la réimplantation de fragments de tissu adipeux prélevés par liposuccion," <i>Ann. Chur. Plast. Esthet.</i> , 34:77-81, 1989 (Exhibit 128)
	Lam, Anson and Ronald Moy, "The Potential for Fat Transplantation," J. Dermatol. Surg. Oncol., 18:432-4, 1992 (Exhibit 129)
	Lecoeur, L. and J. P. Ouhayoun, "In vitro induction of osteogenic differentiation from non-osteogenic mesenchymal cells." Biomaterials. 18:989-93. 1997 (Exhibit 130)
*^	Loncar, D., "Ultrastructural analysis of differentiation of rat endoderm in vitro. Adipose vascular-stromal cells induce endoderm differentiation, which in turn induces differentiation of the vascular-stromal cells into chondrocytes," J. Submicrosc. Cytol. Pathol., 24:509-19, 1992 (Exhibit 131)
	Novakofski, Jan E., "Primary Cell Culture of Adipose Tissue," Biology of the Adipocyte: Research Approaches, Van Nostrand Reinhold Company, NY, 1987 160-97 (Exhibit 132)
	Pedersen, S. B. et al., "Identification of oestrogen receptors and oestrogen receptor mRNA in human adipose tissue." European Journal of Clinical Investigation, 26:262-9, 1996 (Exhibit 133)
·	Pettersson, Per et al., "Adipocyte Precursor Cells in Obese and Nonobese Humans," <i>Metabolism</i> , 34:808 12, 1985 (Exhibit 134)
	Ramsay, T. G. et al., "Pre-Adipocyte Proliferation and Differentiation in Response to Hormone Supplementation of Decapitated Fetal Pig Sera," <i>J. Anim. Sci.</i> , 64:735-44, 1987 (Exhibit 135)
	Rubens, F. D. et al., "Tissue Factor Expression by Cells Used for Sodding of Prosthetic Vascular Grafts," Journal of Surgical Research, 72:22-8, 1997 (Exhibit 136)
	Šmahel, J., "Aspiration lipectomy and adipose tissue injection: pathophysiologic commentary," European Journal of Plastic Surgery, 14:126-31, 1991 (Exhibit 137)
	Springhorn, Jeremy P. et al., "Human Capillary Endothelial Cells from Abdominal Wall Adipose Tissue: Isolation Using an Anti-Pecam Antibody," In Vitro Cellular & Developmental Biology-Animal, 31:473-81, 1995 (Exhibit 138)
	Tavassoli, Mehdi, "In Vivo Development of Adipose Tissue Following Implantation of Lipid-Depleted Cultured Adipocyte." Experimental Cell Research, 137:55-62, 1982 (Exhibit 139)
	Williams, John T. et al., "Cells Isolated from Adult Human Skeletal Muscle Capable of Differentiating into Multiple Mesodermal Phenotypes," <i>The American Surgeon</i> , 65:22-6, 1999 (Exhibit 140)

EXAMINER	DATE CONSIDERED
	in AIDED COO. down to the shallon if got in
EXAMINER: Initial if reference considered, whether or not ci	itation is in conformance with MPEP 609; draw line through citation if not in
conformance and not considered. Include copy of this form	for next communication to the Applicant.
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

^{*}Substitute Disclosure Statement Form (PTO-1449)

FORM 1449°	Docket Number	Application Number
	MA9658DIV 2	10/614,392
INFORMATION DISCLOSURE STATEMENT	Applicant	
IN AN APPLICATION	Fraser et al.	
1	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Williams, Stuart K. et al., "Liposuction-derived human fat used for vascular graft sodding contains endothelial cells and not mesothelial cells as the major cell type," <i>Journal of Vascular Surgery</i> , 19:916-23 1994 (Exhibit 141)
	Włodarski, Krzysztof H., "Section III. Basic Science and Pathology. Properties and Origin of Osteoblasts," Clinical Orthopaedics and Related Research, 252:276-93, 1990 (Exhibit 142)
	Ahrens, Patricia Buckley et al., "Stage-Related Capacity for Limb Chondrogenesis in Cell Culture," Developmental Biology, 1977, 60:69-82 (Exhibit 143)
	Alameddine, Hala S. et al., "Regeneration of Skeletal Muscle Fibers from Autologous Satellite Cells Multiplied In Vitro. An Experimental Model for Testing Cultured Cell Myogenicity," Muscle & Nerve, 1989, 12:544-55 (Exhibit 144)
	Angele, P. et al., "Engineering of Osteochondral Tissue with Bone Marrow Mesenchymal Progenitor Cells in a Derivatized Hyaluronan-Gelatin Composite Sponge," <i>Tissue Engineering</i> , 1999, 5:545-53 (Exhibit 145)
	Bailey, A. J. et al., "Age-Related Changes in the Biochemical Properties of Human Cancellous Bone Collagen: Relationship to Bone Strength," Calcified Tissue International, 1999, 65:203-10 (Exhibit 146)
	Barghom, A. et al., "α-Smooth Muscle Actin Distribution in the Pulmonary Vasculature Comparing Hypoplastic and Normal Fetal Lungs," <i>Pediatric Pathology & Laboratory Medicine</i> , 1998, 18:5-22 (Exhibit 147)
	Baylink, David J., "Glucocorticoid-Induced Osteoporosis," The New England Journal of Medicine, 1983, 309:306-8 (Exhibit 148)
	Becerra, José et al., "Demineralized Bone Matrix Mediates Differentiation of Bone Marrow Stromal Cells In Vitro: Effect of Age of Cell Donor," <i>Journal of Bone and Mineral Research</i> , 1996, 11:1703-14 (Exhibit 149)
	Beiser, Ian H. and Irvin O. Kanat, "Subchondral Bone Drilling: A Treatment for Cartilage Defects," Journal of Foot Surgery, 1990, 29:595-601 (Exhibit 150)
	Breen, Ellen C. et al., "TGFB Alters Growth and Differentiation Related Gene Expression in Proliferating Osteoblasts In Vitro, Preventing Development of the Mature Bone Phenotype," <i>Journal of Cellular Physiology</i> , 1994, 160:323-35 (Exhibit 151)
	Bruder, Scott P. et al., "Bone Regeneration by Implantation of Purified, Culture-Expanded Human Mesenchymal Stem Cells," Journal of Orthopaedic Research, 1998, 16:155-62 (Exhibit 152)
	Butnariu-Ephrat, Miriam et al., "Resurfacing of Goat Articular Cartilage by Chondrocytes Derived From Bone Marrow," Clinical Orthopaedics and Related Research, 1996, 330:234-43 (Exhibit 153)
	Campion, Dennis R., "The Muscle Satellite Cell: A Review," Internationals Review of Cytology, 1984, 87:225-51 (Exhibit 154)
·	Caplan, Arnold I., "Mesenchymal Stem Cells," Journal of Orthopaedic Research, 1991, 9:641-50 (Exhibit 155)
	Caplan, Arnold I., "The Mesengenic Process," Clinics in Plastic Surgery, 1994, 21:429-35 (Exhibit 156)
	Carranza-Bencano, A. et al., "Comparative Study of the Reconstruction of Articular Cartilage Defects with Free Costal Perichondrial Grafts and Free Tibial Periosteal Grafts: An Experimental Study on Rabbits," Calcified Tissue International, 1999, 65:402-7 (Exhibit 157)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is	in conformance with MPEP 609; draw line through citation if not in
conformance and not considered. Include copy of this form for next	communication to the Applicant.
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

^{*}Substitute Disclosure Statement Form (PTO-1449)

FORM 1449*	Docket Number	Application Number
	MA9658D W 2	10/6/4,392
INFORMATION DISCLOSURE STATEMENT	Applicant Fraser et al.	
IN AN APPLICATION		
	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Chen, Xiaoli et al., "Differentiation-dependent expression of obese (ob) gene by preadipocytes and adipocytes in primary cultures of porcine stromal-vascular cells," <i>Biochimica et Biophysica Acta</i> , 1997, 1359:136-42 (Exhibit 158)
Chimal-Monroy, Jesús and Lino Díaz de León, "Expression of N-cadherin, N-CAM, fibronectin tenascin is stimulated by TGF-β1, β2, β3 and β5 during the formation of precartilage condensations," <i>The International Journal of Developmental Biology</i> , 1999, 43:59-67 (Exhibit 159)
Deng, Weiwen et al., "In Vitro Differentiation of Human Marrow Stromal Cells into Early Progenitors of Neural Cells by Conditions That Increase Intracellular Cyclic AMP," <i>Biochemical and Biophysical Research Communications</i> , 2001, 282:148-52 (Exhibit 160)
Dennis, James E. et al., "A Quadripotential Mesenchymal Progenitor Cell Isolated from the Marrow of an Adult Mouse," Journal of Bone and Mineral Research, 1999, 14:700-9 (Exhibit 161)
Dias, Peter et al., "The Molecular Basis of Skeletal Muscle Differentiation," Seminars in Diagnostic Pathology, 1994, 11:3-14 (Exhibit 162)
Diefenderfer, David L. and Carl T. Brighton, "Microvascular Pericytes Express Aggrecan Message Which is Regulated by BMP-2," <i>Biochemical and Biophysical Research Communications</i> , 2000, 269:172-8 (Exhibit 163)
Eisenberg, Shlomo, "High density lipoprotein metabolism," Journal of Lipid Research, 1984, 25:1017-58 (Exhibit 164)
 Fajas, Lluis, et al., "Transcriptional control of adipogenesis," Current Opinion in Cell Biology, 1998, 10:165-73 (Exhibit 165)
Farndale, Richard W. et al., "Improved quantitation and discrimination of sulphated glycosaminoglycans by use of dimethylene blue," <i>Biochimica et Biophysica Acta</i> , 1986, 883:173-7 (Exhibit 166)
Fülöp, Csaba et al., "Expression of Alternatively Spliced Epidermal Growth Factor-like Domains in Aggrecans of Different Species," <i>The Journal of Biological Chemistry</i> , 1993, 268:17377-83 (Exhibit 167)
Glowacki, J., "Influence of Age on Human Marrow," Calcified Tissue International, 1995, 56(Supp. 1):S50 1 (Exhibit 168)
Grigoriadis, Agamemnon E. et al., "Analysis of chondroprogenitor frequency and cartilage differentiation in a novel family of clonal chondrogenic rat cell lines," <i>Differentiation</i> , 1996, 60:299-307 (Exhibit 169)
Hardingham, Tim et al., "Studies on the Synthesis, Secretion and Assembly of Proteoglycan Aggregates by Chondrocytes," <i>Matrices and Cell Differentiation</i> , 1984, 151:17-29 (Exhibit 170)
Haynesworth, S. E. et al., "Cell Surface Antigen on Human Marrow-Derived Mesenchymal Cells are Detected by Monoclonal Antibodies," <i>Bone</i> , 1992, 13:69-80 (Exhibit 171)
Huss, Ralf, "Isolation of Primary and Immortalized CD34" Hematopoietic and Mesenchymal Stem Cells from Various Sources," Stem Cells, 2000, 18:1-9 (Exhibit 172)
lwasaki, Motoki et al., "Regulation of Proliferation and Osteochondrogenic Differentiation of Periosteum- Derived Cells by Transforming Growth Factor-β and Basic Fibroblast Growth Factor," <i>Journal of Bone and Joint Surgery</i> , 1995, 77A:543-54 (Exhibit 173)
Katz, Adam J. et al., "Emerging Approaches to the Tissue Engineering of Fat," Clinics in Plastic Surgery, 1999, 26:587-603 (Exhibit 174)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in		
conformance and not considered. Include copy of this form for	or next communication to the Applicant.	
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE	

FORM 1449*	Docket Number	Application Number	
	MA9658D1U2	10/6/4.392	
INFORMATION DISCLOSURE STATEMENT	Applicant		
IN AN APPLICATION Fraser et al.		et al.	
	Filing Date	Group Art Unit	
(Use several sheets if necessary)	7/7/03	1744	

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Kirsch, Thorsten and Klaus von der Mark, "Remodelling of collagen types I, II and X and calcification of human fetal cartilage," <i>Bone and Mineral</i> , 1992, 18:107-17 (Exhibit 175)
	Kosher, Robert A. and Michael Solursh, "Widespread Distribution of Type II Collagen during Embryonic Chick Development," <i>Developmental Biology</i> , 1989, 131:558-66 (Exhibit 176)
	Lazarus, Hillard M. et al., "Human Bone Marrow-Derived Mesenchymal (Stromal) Progenitor Cells (MPCs) Cannot Be Recovered from Peripheral Blood Progenitor Cell Collections," <i>Journal of Hematotherapy</i> , 1997, 6:447-55 (Exhibit 177)
	Leboy, Phoebe S. et al., "Ascorbic Acid Induces Alkaline Phosphatase, Type X Collagen, and Calcium Deposition in Cultured Chick Chondrocytes," <i>The Journal of Biological Chemistry</i> , 1989, 264:17281-6 (Exhibit 178)
·	Lee, Yun-Shain and Cheng-Ming Chuong, "Adhesion Molecules in Skeletogenesis: I. Transient Expression of Neural Cell Adhesion Molecules (NCAM) in Osteoblasts During Endochondral and Intramembranous Ossification," <i>Journal of Bone and Mineral Research</i> , 1992, 7:1435-46 (Exhibit 179)
	Lennon, Donald P. et al., "Human and Animal Mesenchymal Progenitor Cells from Bone Marrow: Identification of Serum for Optimal Selection and Proliferation," In Vitro Cell. Dev. Biol Animal, 1996, 32:602-11 (Exhibit 180)
	Lev, Robert and S. S. Spicer, "Specific Staining of Sulphate Groups with Alcian Blue at Low pH," J. Histochem. Cytochem., 1964, 12:309-10 (Exhibit 181)
	Long, Michael W. et al., "Age-Related Phenotypic Alterations in Populations of Purified Human Bone Precursor Cells," The Journals of Gerontology, 1999, 54A:B54-62 (Exhibit 182)
	Lucas, P. A. et al., "Isolation of Putative Mesenchymal Stem Cells from Rat Embryonic and Adult Skeletal Muscle," In Vitro Cell Dev. Biol., 1992, 28:154A (Exhibit 183)
1	MacDougald, Ormond A. and M. Daniel Lane, "Transcriptional Regulation of Gene Expression During Adipocyte Differentiation," <i>Annu. Rev. Biochem.</i> , 1995, 64:345-73 (Exhlbit 184)
	Mullen, Richard J. et al., "NeuN, a neuronal specific nuclear protein in vertebrates," Development, 1992, 116:201-11 (Exhibit 185)
	Nagle, R. B. et al., "Factor VII-Associated Antigen in Human Lymphatic Endothelium," Lymphology, 1987, 20:20-4 (Exhibit 186)
	Nakahara, H. et al., "Bone and Cartilage Formation in Diffusion Chambers by Subcultured Cells Derived from the Periosteum," <i>Bone</i> , 1990, 11:181-8 (Exhibit 187)
	Nakano, Hirotaka et al., "RT-PCR Suggests Human Skeletal Muscle Origin of Alveolar Soft-Part Sarcoma," Oncology, 2000, 58:319-23 (Exhibit 188)
	O'Driscoll, Shawn W., "Current Concepts Review: The Healing and Regeneration of Articular Cartilage," Journal of Bone and Joint Surgery, 1998, 80A:1795-812 (Exhibit 189)
	Olson, E. N. et al., "Know Your Neighbors: Three Phenotypes in Null Mutants of the Myogenic bHLH Gene MRF4," Cell, 1996, 85:1-4 (Exhibit 190)
	Pairault, Jacques and Howard Green, "A study of the adipose conversion of suspended 3T3 cells by using glycerophosphate dehydrogenase as differentiation marker," <i>Proc. Natl. Acad. Sci. USA</i> , 1979, 76:5138-42 (Exhibit 191)
	Park, S. R. et al., "Interconversion Potential of Clone Human Marrow Adipocytes In Vitro," Bone, 1999, 24:549-54 (Exhibit 192)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in		
conformance and not considered. Include copy of this form for next communication to the Applicant.		

FORM 1449°	Docket Number	Application Number
	MA9658D1V2	10/6/4,392
INFORMATION DISCLOSURE STATEMENT	Applicant Fraser et al.	
IN AN APPLICATION		
	Filing Date	Group Art Unit
(Use several sheets if necessary)	7/7/03	1744

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
<u> </u>	Pettersson, Per et al., "Cells in Human Adipose Tissue Developing into Adipocytes," Acta Med Scand.
	1984, 215:447-51 (Exhibit 193)
	Pierelli, Luca et al., "CD34+/CD105+ cells are enriched in primitive circulating progenitors residing in the
1	G0 phase of the cell cycle and contain all bone marrow and cord blood CD34+/CD38 ^{lowl-} precursors,*
ļ	British Journal of Haematology, 2000, 108:610-20 (Exhibit 194)
	Price, Paul A., "GLA-Containing Proteins of Bone," Connective Tissue Research, 1989, 21:51-60 (Exhibit 195)
	Price, Paul A. and Sharon A. Baukol, "1,25-Dihydroxyvitamin D3 Increases Synthesis of the Vitamin K-
	dependent Bone Protein by Osteosarcoma Cells," The Journal of Biological Chemistry, 1980, 255:11660-3 (Exhibit 196)
	Probst, M. et al., "Homologous bladder augmentation in dog with the bladder acellular matrix graft," BJU International, 2000, 85:362-71 (Exhibit 197)
	Richardson, J. B. et al., "Repair of human articular cartilage after implantation of autologous
<u> </u>	chondrocytes," The Journal of Bone and Joint Surgery, 1999, 81:1064-8 (Exhibit 198)
	Rickard, David J. et al., "Isolation and Characterization of Osteoblast Precursor Cells from Human Bone Marrow," <i>Journal of Bone and Mineral Research</i> , 1996, 11:312-24 (Exhibit 199)
	Samat, Harvey B. et al., "Neuronal nuclear antigen (NeuN): a marker of neuronal maturation in the early human fetal nervous system," <i>Brain & Development</i> , 1998, 20:88-94 (Exhibit 200)
	Scott, Douglas M. et al., "Collagen Synthesis in Cultured Osteoblast-like Cells," Archives of Biochemistry and Biophysics, 1980, 201:384-91 (Exhibit 201)
	Shalhoub, Victoria et al., "Downregulation of Cell Growth and Cell Cycle Regulated Genes during Chick
	Osteoblast Differentiation with the Reciprocal Expression of Histone Gene Variants," <i>Biochemistry</i> , 1989, 28:5318-22 (Exhibit 202)
	Siffert, Robert S., "The Role of Alkaline Phosphatase in Osteogenesis," The Journal of Experimental Medicine, 1951, 93:415-26 (Exhibit 203)
	Syrjälä, M. et al., "A flow cytometric assay of CD34-postitive cell populations in the bone marrow," British Journal of Haematology, 1994, 88:679-84 (Exhibit 204)
	Tacchetti, C. et al., "In Vitro Morphogenesis of Chick Embryo Hypertrophic Cartilage," The Journal of Cell Biology, 1987, 105:999-1006 (Exhibit 205)
	Tontonoz, Peter et al., "mPPARy2: tissue-specific regulator of an adipocyte enhancer," Genes & Development, 1994, 8:1224-34 (Exhibit 206)
	Trayhum, P. and Margaret Ashwell, "Control of white and brown adipose tissues by the autonomic nervous system," The Proceedings of the Nutrition Society, 1987, 46:135-42 (Exhibit 207)
	Vandenburgh, Herman H. and Patricia Karlisch, "Longitudinal Growth of Skeletal Myotubes In Vitro in a New Horizontal Mechanical Cell Stimulator," In Vitro Cellular & Developmental Biology, 1989, 25:607-16 (Exhibit 208)
	Wakitani, Shigeyuki et al., "Mesenchymal Cell-Based Repair of Large, Full-Thickness Defects of Articular Cartilage," The Journal of Bone and Joint Surgery, 1994, 76A:579-92 (Exhibit 209)
	Wakitani, Shigeyuki et al., "Myogenic Cells Derived from Rat Bone Marrow Mesenchymal Stem Cells Exposed to 5-Azacytidine," Muscle & Nerve, 1995, 18:1417-26 (Exhibit 210)
	Weintraub, Harold et al. "Tissue-specific gene activation by MyoD: determination of specificity by cis-
	acting repression elements," Genes & Development, 1994, 8:2203-11 (Exhibit 211)
	acting repression elements, Genes & Development, 1994, 8.2203-11 (Exhibit 211)

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citatic conformance and not considered. Include copy of this form for	on is in conformance with MPEP 609; draw line through citation if not in next communication to the Applicant.
*Substitute Disclosure Statement Form (PTO-1449)	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number MA9658 DW2	Application Number 10/6/4, ?92
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.	
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit 1744

	 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	 Yoo, Jung U. and Brian Johnstone, "The Role of Osteochondral Progenitor Cells in Fracture Repair," Clinical Orthopaedics and Related Research, 1998, 355S:S73-81 (Exhibit 212)
	Young, Henry E. et al., "Human Pluripotent and Progenitor Cells Display Cell Surface Cluster Differentiation Markers CD10, CD13, CD56, and MHC Class-I (44365)," Proc. Soc. Exp. Biol. Med., 1999, 221:63-71 (Exhibit 213)
	Zezulak, Kathleen M. and Howard Green, "Specificity of Gene Expression in Adipocytes," Molecular and Cellular Biology, 1985, 5:419-21 (Exhibit 214)
	Zohar, R. et al., "Analysis of intracellular osteopontin as a marker of osteoblastic cell differentiation and mesenchymal cell migration," <i>European Journal of Oral Sciences</i> , 1998, 106(Supp. 1):401-7 (Exhibit 215)
	Zuk, Patricia Z. et al., "Multilineage Cells from Human Adipose Tissue: Implication for Cell-Based Therapies," Tissue Engineering, 2001, 7:211-28 (Exhibit 216)
	•
`	

EXAMINER	DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in				

conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number Application Number MA9658D1V2 10/6/4, 892			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicant Fraser et al.			
(Use several sheets if necessary)	Filing Date 7/7/03	Group Art Unit 1744		

U.S. PATENT DOCUMENTS								
EXAMINER INITIAL			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
			FOREIGN	PATENT DOCUMEN	ITS			
	DOCUMEN'	T NO.	DATE	COUNTRY	CLASS	SUBCLASS		SLATION
					<u> </u>		YES	NO
			R DOCUMENTS (Includ		<u> </u>			
		and Se	y, et al., 1985, "The Effe eded Hydroxyapatite Gr	owth," Calc. Tiss. In	r. 37:75. (Exhibi	it 217)	•	
		mesen	, Lisa, et al., 2000, "Isol chymal stem cells," Am.	J. Vet. Res. 59:1182-	-1187. (Exhibit :	218)		
		of Rab (Exhib	gtse, Barbara, et al., 199 bit Marrow-derived Mes oit <mark>219)</mark>	senchymal Progenitor	Cells," Journal	of Orthopaedic	Research	. 18:18-24.
		Pathol	mayer, Thomas et al., 19 . Immunopathol. 7:14-19	9. (Exhibit 220)				•
			ma, I. et al., 1998, "Adip ntiation," Differentiation			organized by adip	ocytes di	ıring
·	Zvaisler, et al., 2000, "Mesenchymal precursor cells in the blood of normal individuals," Arthritis Res. 2:477-488. (Exhibit 222)					ritis Res.		
-	Bond et al., 1999, "Human Subcutaneouspreadipocytes Differentiate Into osteoblasts," FASEB Journal 13:600A (Exhibit 225)					Journal		
	Smith et al., 2000, "Mesenchymal Stem Cells Derived From Bone Marrow And Human Adipose Tissur Exhibit Multilineage Potential," Journal of Investigative Medicine, 95A. (Exhibit 226)				se Tissue			

XAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449) Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FORM 1449*	Docket Number	Application Number		
·	MA9658DIUL	10/6/4, 392		
INFORMATION DISCLOSURE STATEMENT	Applicant			
IN AN APPLICATION	Fraser et al.	i.		
	Filing Date	Group Art Unit		
(Use several sheets if necessary)	7/7/03	1744		

		U.S. PA	TENT DOCUMENTS	5			·····
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILIN	IG DATE
	5,854,292	December 29, 1998	Ailhaud et al.				
		(Exhibit 235)					
		FOREIGN	PATENT DOCUMEN	NTS			-
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRAN	SLATION
				İ		YES	NO
	WO 99/28444 (Exhibit 223)	June 10, 1999	PCT				
	WO 99/02654 (Exhibit 224)	January 21, 1999	PCT				
	WO 00/53795 (Exhibit 231)	September 14, 2000	PCT				
	WO 01/62901 A2 (Exhibit 232)	August 30, 2001	PCT				•
	WO 01/21767 (Exhibit 233)	March 29, 2001	PCT				
	WO 97/26326 (Exhibit 236)	July 24, 1997	PCT				
•		R DOCUMENTS (Including	ng Author, Title, Date	e, Pertinent Page	es, Etc.)	•	······································
	abdon	Stashower et al., 1999, "Stromal progenitor cells present within liposuction and reduction abdominoplasty fat for autologous transfer to aged skin," <i>Dermatologic Surgery</i> , 25:12:945-949. (Exhibit 227)					
		et al., 1996, "Growth and ular Medicine: Human C				ture," met	hods in
	Tavas	Tavassoli et al., 1981, "The Nature of Fibroblasts Derived From Adipose Tissue In-Vitro," Clinical Research, 29:5:871A. (Exhibit 229)					
	Van et al., 1978, "Complete Differentiation of Adipocyte Precursors," Cell Tissue, 195:317-329. (Exhibit 230)						
	Soda, et al., 1983, "Adipocyte stem cell: A brief review," Int. J. of Cell Cloning, 1:79-84. (Exhibit 234)						
		ud, et al., 1983, "Hormona o," Diabete & Metabolism			rentiation of OB1	7 preadip	ocyte cells
	Ailhai	ud, et al., 1985, "Lipoprot 3-158. (Exhibit 238)			ytaire," Reprod. 1	Vutr. Deve	elop., Vol.
	Zuk, I	Patricia A. et al., "Human by of the Cell, 2002, 13:42			tipotent Stem Ce	lls," <i>Mole</i>	cular
	Gimb	le, Jeffery M. et al., "Adip bit 240)			pert Opin. Biol.,	2003, 3(5)705-713
	Saffor	d, Kristine M. et al., "New Biochemical and Biophy					
	1 4413,	Distriction and Dispiny			,		'

1	EXAMINER	DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not				
	conformance and not considered. Include copy of this form for next communication to the Applicant.			